

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,428,279 B2  
APPLICATION NO. : 10/791244  
DATED : September 23, 2008  
INVENTOR(S) : Yang et al.

Page 1 of 3

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

**ON THE TITLE PAGE**

Item -56-, U.S. PATENT DOCUMENTS, page 2, left column, after line beginning with "6,128,276" delete "6,137,843 A 10/2000 Chennakeshu et al."

Item -56-, U.S. PATENT DOCUMENTS, page 2, left column, delete line beginning with "6,137,848" and insert therefor --6,137,848 A 10/2000 Chennakeshu et al.--.

Item -56-, U.S. PATENT DOCUMENTS, page 2, right column, delete line 1, and insert therefor --2003/0026201 A1 2/2003 Arnesen--.

Item -56-, FOREIGN PATENT DOCUMENTS, page 2, right column, after line beginning with "EP 1 139 632" delete "EP 1139623 10/2001" and insert therefor --EP 1139632 10/2001--.

Item -56-, FOREIGN PATENT DOCUMENTS, page 3, left column, after line beginning with "WO 01/47203 A2" insert --WO 01/52489 7/2001--.

Item -56-, FOREIGN PATENT DOCUMENTS, page 3, left column, after line beginning with "WO 01/54305" delete "WO 01/54305 A2 7/2001" and insert therefor --WO 01/54305 A1 7/2001--.

Item -56-, FOREIGN PATENT DOCUMENTS, page 3, left column, after line beginning with "WO 02/054537" delete "WO 02/09977 4/2002".

At column 1, line 9, before the word "which" insert  
--provisional application No. 60/482,333, dated Jun. 25, 2003--.

At column 1, line 41, after the words "transpose (or)", delete "Hermetian)" and insert therefor --Hermitian)--.

At column 1, line 65, before the word "data" delete "detection" and insert therefor --detecting--.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

At column 2, line 16, before the words "the desired", delete "estimating" and insert therefor --estimation of--.

At column 2, line 56, after the word "communication", delete "system" and insert therefor --systems--.

At column 3, line 1, after the word "be", insert --the--.

At column 5, line 19, after the word "correction", delete "uses" and insert therefor --using--.

At column 6, line 19, before the words "If assuming", delete " $\Sigma^l = E\{\tilde{n}_l \tilde{n}_l^H\}$ " and insert therefor --  $\Sigma_l = E\{\tilde{n}_l \tilde{n}_l^H\}$  --.

At column 6, line 65, after " $H_p H_p^H$  and" delete " $H^f H_f^H$ " and insert therefor -- $H_f H_f^H$ --.

At claim 6, column 8, line 32, before the words "the desired", delete "estimating" and insert therefor --estimation of--.

At claim 10, column 9, line 8, before the words "the desired", delete "estimating" and insert therefor --estimation of--.

At claim 16, column 10, line 38, before the words "the desired", delete "estimating" and insert therefor --estimation of--.

At claim 16, column 10, line 47, before the words "prior to", delete "is".

At claim 18, column 10, line 59, after the word "vector", delete "is".

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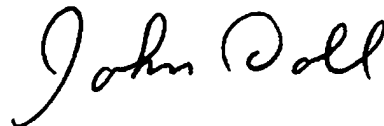
Page 3 of 3

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

At claim 20, column 11, line 15, before the words "the desired", delete "estimating" and insert therefor --estimation of--.

Signed and Sealed this

Ninth Day of June, 2009

A handwritten signature in black ink that reads "John Doll". The signature is written in a cursive style with a large, stylized 'J' and 'D'.

JOHN DOLL  
*Acting Director of the United States Patent and Trademark Office*